# Quick Reference for vi

This quick reference lists commands you can use in the ví editor on Hewlett-Packard's UNIX™ System, HP-UX.

#### **Notations**

- Commands beginning with: (colon) must end with Return
  These commands represent escape commands to the ex
  editor. You can reference the ex tutorial for more details.
- · file is the name of file
- cursor\_cmd is a cursor movement command (e.g., G j w b)
- · char is a single character
- str is a character string (can contain pattern matching characters)
- CTRL) x means you press CTRL, hold it down, and press the x key.
- n,m can be two line numbers (e.g., 4,50), line marker (e.g.,
   ,\$), or search expression (e.g., /string1/,/string2/).
- (a-z) means you choose a letter from a through z

### Modes

Command Mode

When you are not inserting or changing text, you can move the cursor and run commands (e.g., searching, deleting, saving). Pay attention to the case of the commands; check the Caps lock key if vi behaves strangely.

Insert Mode

When you insert or change more than one character of text, you cannot use command mode commands. To leave the insert mode, press ESC.

cat control print dot > new

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#### Start a vi Session

vi file Edit file vi -r file Edit last saved version of file after system or

editor crash vi + n file Edit file and place cursor at line n

vi + file Edit file and place cursor on last line

vi file1 file2 ...filen Edit file1 through filen; After saving changes in file1, enter : n for next file

vi +/str file Edit file and place cursor at line containing str

#### Save Text and Exit vi

Save file and exit vi ZZ or :wq or :x

Save file but do not exit; omitting file saves :w file current file

:w! file Save file overriding normal checking

:n.mw file Write lines n through m to file

Append lines n through m to end of file :n,mw>>file

Leave vi, saving changes before last write : q (you may be prompted to save first)

Leave vi without saving any changes since :q! last write

Q Escape vi into ex editor with same file; :vi returns.

: e! Re-edit current file, disregarding changes since

last write

### **Status Commands**

Print current line number : .=

Print number of lines in file :=

Show file name, current line number, total lines CTRL + g

in file, and percent of file location

:1 (letter "l") Display tab (^1) backslash (\) backspace (^H)

newline (\$) bell (^G) formfeed (^L) of current line in status line

# **Inserting Text**

To leave the insert mode, press ESC.

Append after end of current line A

i Insert before cursor

I Insert before beginning of current line

Open new line below current line and insert 0

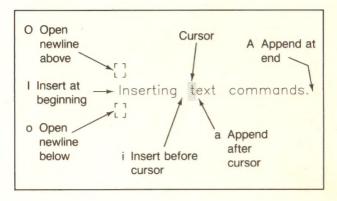
0 Open new line above current line and insert

CTRL | v char While inserting, ignore special meaning of char (e.g., for inserting characters like ESC and

control characters)

Read file, and insert after current line :r file

:nr file Read file, and insert after line n



# **Undoing and Repeating Commands**

u	Undo last command
U	Restore current line to original state
"np	Retrieve last nth delete (last 9 deletes are in a buffer)
"1pu.u.	Scroll through the delete buffer until you retrieve desired delete (repeat $u$ .)
n	Repeat last / or ? search command
N	Repeat, in reverse direction, last / or ? search command
; (semi-colon)	Repeat last f F t or T search command

Repeat, in reverse direction, last f F t or T , (comma)

search command

. (period) Repeat last text change command

## Moving the Cursor

k or CTRL | p Up j or CTRL j Down or CTRL H n

h or CTRL h Or Back space

Left

1 or Space Right

w or W Start of next word; Wignores punctuation

b or B Start of previous word; B ignores punctuation End of next word; E ignores punctuation e or E

0 (zero) or First column in current line

Column n in current line n

^ (caret) First non-blank character in current line

\$ Last character in current line

+ or Return First character in next line

First non-blank character in previous line

1G First line in file

G Last line in file

G\$ Last character in file

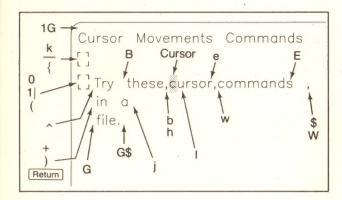
nG Line n in file

( Back to beginning of sentence )

{ Back to beginning of paragraph

7 Forward to beginning of next paragraph

Forward to beginning of next sentence



# **Section Positioning**

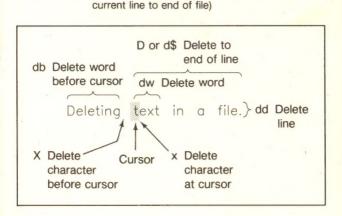
Mark sections by placing { in first column.

[[ Back to beginning of section

]] Forward to beginning of next section

# **Deleting Text**

CTRL h or Back space	While inserting, delete previous character
CTRL-w	While inserting, delete previous word
CTRL X	While inserting, delete to start of inserted text
nx	Delete $n$ characters beginning with current; omitting $n$ deletes current character
nX	Delete previous $n$ characters; omitting $n$ deletes previous character
хр	Switch character at cursor with following character
ndw	Delete next <i>n</i> words beginning with current; omitting <i>n</i> deletes current word
ndb	Delete previous $n$ words; omitting $n$ deletes previous word
ndd	Delete $n$ lines beginning with current; omitting $n$ deletes current line
: n,md	Delete lines n through m
D or d\$	Delete from cursor to end of current line
dcursor_cmd	Delete text to cursor_cmd (e.g., dG deletes from



# **Placing Marks in the Text**

m(a-z)	Mark current position with a letter a through $z$ (e.g., $ma$ )	
'(a-z)	Move cursor to position (a-z) (e.g., 'a)	
(single quotes or grave accents)	Move cursor to location before last / ? or G command	

## **Pattern Matching**

Pattern matching characters help find strings with similar characteristics.

:set magic Allow pattern matching with special characters (default)

:set nomagic Allow only and as special characters

^ (caret) Match beginning of line

\$

< or >

Match end of line Match any single character

1< Match beginning of word

1> Match end of word

[str] Match any single character in str

[^str] Match any character not in str

[a-n]Match any character between a and n

Match zero or more occurrences of previous

character in expression

Escape meaning of next character (e.g., \\$ lets

you search for \$)

11 Escape the \ character

## **Indenting Text**

CTRL-i or Tab While inserting, insert one shift width

:set ai Turn on auto-indentation

:set sw=n Set shift width to n characters n<< or n>> Shift n lines left or right (respectively) by one

shift width; omitting n shifts one line

Use with cursor command to shift multiple lines

left or right



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## Searching

% Search to beginning of balancing ( ) [ ] or { }

fchar Search forward in current line to char

Search backward in current line to char

tchar Search forward in current line to character before

char

Tchar Search backward in current line to character after

char

/str Return Find str

?str Return Search in reverse for str

:set ic Ignore case when searching

:set noic Pay attention to case when searching (default)

# **Global Search and Replace**

:n,ms/str1/str2/opt Search from n to m for str1. Replace str1 with str2, using opt. opt can be g for global change, c to confirm change (press y to

change, c to confirm change (press y to acknowledge, Return to suppress), and p to print changed lines.

to print changed lines.

Repeat last :s command

: g/str/cmd Run cmd on all lines that contain str

: g/str1/s/str2/str3/ Find line containing str1, replace str2 with str3

: v/str/cmd Execute cmd on all lines that do not match

# **Copying and Placing Text**

nyy or nY Yank n lines (place in buffer); omitting n yanks current line

ycursor\_cmd Yank from cursor to cursor\_cmd (e.g., yG yanks

current line to last line in file)

"(a-z)nyy or Copy or delete n lines into named buffer a

"(a-z)ndd through z; omit n for current line

p (lower-case) Put yanked text after cursor (print buffer); also

prints last deleted text

P Put yanked text before cursor; also prints last deleted text

"(a-z)p or "(a-z)P Put lines from named buffer a through z after or before current line

## **Changing Text**

Preceding these commands with n (a number) repeats the command n times.

rchar Replace current character with char

Rtext ESC Replace current character(s) with text

stext [ESC] Substitute text for current character

S or cc text ESC Substitute text for entire line

Ctext ESC Change rest of current line to text

ccursor\_cmd text ESC Change to text from current position to

Change current word to text

cursor\_cmd

## **Joining Lines**

J Join next line to end of current line

nJ Join next n lines

cwtext ESC

# Cursor Placement and Adjusting the Screen

H Move cursor to top line of screen

nH Move cursor to line n from top of screen

Move cursor to middle of screen

L Move cursor to bottom line of screen

nL Move cursor to Line n from bottom of screen

CTRL e Move screen up one line

CTRL y Move screen down one line

CTRL | u Move screen up 1/2 page

CTRL d Move screen down 1/2 page

Move screen up one page

Move screen down one page

CTRL | (letter "I") Redraw screen

z Return Make current line top line on screen

nz Return Make line n top line on screen

z. Make current line middle line

nz. Make line n middle line on screen

z- Make current line bottom line

nz- Make line n bottom line on screen

# **Shell Escape Commands**

Execute shell command cmd; you can add these special characters to indicate:

""" name of the current file

""" name of last file edited

""" Execute last shell command

""" cmd

""" Read and insert output from cmd

""" file

""" Rename current file to file

""" Send currently edited file to cmd as standard input and execute cmd

""" Change the current working directory to directory to directory to directory to directory to directory to directory.

cd dir Change the current working directory to dir (\$HOME is default)

: sh Start a sub-shell (CTRL) or returns to editor)
: so file Read and execute commands in file (file is a shell script)

## **Shell Filters**

!cursor\_cmd cmd Send text from current position to cursor\_cmd to shell command cmd. Replace original text in file with output from cmd

!}sort Return Example: Sort from current position to end of paragraph and replace text with sorted text

## **Macros and Abbreviations**

 :map key cmd\_seq
 Define key to run cmd\_seq when pressed

 :map
 Display all created macros on status line

 :unmap key
 Remove macro definition for key

 :ab str string
 When str is inserted, replace with string

 :ab
 Display all abbreviations

 :una str
 Unabbreviate str

Map allows you to define strings of vi commands. Place in .exrc to run each time you enter vi. For long macros, set the notimeout option. If you embed control characters (e.g., keys like  $\boxed{\texttt{ESC}}$ ) in the macro, you need to precede them with  $\boxed{\texttt{CTRL}}$  v. If you need to include quotes ("), precede them with \ (backslash). Unused keys in vi are: K V g q v \* = and the function keys.

#### Example:

:map v /I CTRL) v ESC dwiYou CTRL) v ESC ESC When v is pressed, search for "I" (/I ESC), delete word (dw) and insert "You" (iYou ESC). CTRL) v allows ESC to be inserted.

# **Setting Options**

Options shown here are default. To change them, either set them (:set option) or unset them (:set nooption). To run options each time you enter vi, place in .exrc file in home directory and omit preceding colons (:).

-	ling colons (:).	ce in .exrc file in home directory and omit
:set	all	Print all options
:set	nooption	Turn off option
:set	noai	Set automatic indentation
:set	ap	Print line after d c J m :s t u command
:set	bf	Discard control characters from input
:set	eb	Precede error messages with bell
:set	noic	Ignore case when searching
:set	dir=tmp	Set directory of buffer file
:set	lisp	Modify brackets for Lisp compatibility
:set	magic	Pattern match with special characters
:set	mesg	Allow other users to send messages
:set	nolist	Show tabs (^1) and end of line (\$)
:set	nonu	Prefix lines with line number
:set	opt	Speed output: eliminate automatic Return
:set	prompt	Prompt for command mode input with:
:set	nore	Simulate smart terminal on dumb terminal
:set	remap	Allow macros within macros
:set	noreport	Indicate largest size of changes reported on status line
:set	ro	Change file to read only
:set	scroll=n	Set $n$ lines for CTRL d and $\mathbf{z}$
:set	sh=shell_path	Set shell escape (default is /bin/sh)
:set	showmode	Indicate input or replace mode
:set	sw=8	Set the shift width
:set	term	Print terminal type
:set	noterse	Shorten error messages with terse
:set	notimeout	Eliminate one second time limit for macros
:set	t1=0	Set significance of tags beyond this many characters (0 means all)
:set	ts=8	Set tab stops for text input
:set	nowa	Inhibit normal checks before write commands
:set	warn	Warn "No write since last change"
:set	window=n	Set number of lines in a text window

Set automatic wraparound n spaces from

right margin (e.g., :set wm=8)

:set window=n
:set wm=n